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Notice of Allowability	Application No.	Applicant(s)	
	10/053,761	DENG, YU	
	Examiner	Art Unit	
	Shelly A Chase	2133	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1-22-2002.
2. ☒ The allowed claim(s) is/are 1-9.
3. ☒ The drawings filed on 29 December 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>3-28-2003</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

1. Claims 1 to 9 are presented for examination.

Information Disclosure Statement

2. The references listed in the information disclosure statement submitted on 3-28-2003 have been considered by examiner (see attached PTO-1449).

Allowable Subject Matter

3. Claims 1 to 9 are allowed.
4. The following is a statement of reasons for the indication of allowable subject matter: the present invention claims a system and a method for de-skewing serial data received from a single serial XAUI lane (Ten Gigabit Attachment Unit Interface) for each NxN chip wherein a chip is set as a master device asserting an alignment signal and a another chip is set as a slave device detecting the aligned character. The time difference between the master asserting and the slave detecting is measured and the chips are aligned.

The prior art made of record teaches various methodologies for skewing and de-skewing XAUI lanes. For instance, Carotti et al. (USP 6704890 B1), discloses skew compensating scheme for transmitted parallel signals of a (Reference Aligned Universal Digital Interface) RAUDI. Venkata et al. (USP 6665497 B1), discloses a programmable logic device including a communication interface for providing alignment for various

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communication protocols wherein a core logic [90] output a de-skew signal [54] to a de-skew channel [80]. Wu et al. (*Design and verification of differential transmission lines*, IEEE), discloses verification for differential transmission lines for various gigabit communication protocols.

However, the prior art made of record is different from the instant invention in that the prior art made of record fails to teach or fairly suggests de-skewing a plurality of individual chips with the XAUI serial lane. Specifically, the prior art made of record, taken alone or in combination, fails to teach or fairly suggests or render obvious a system and a method for de-skewing serial data received at a plurality of independent devices, each device for being coupled to receive a single serial XAUI lane, comprising a de-skew unit for determining if the received data is skewed relative to data received at a master device or at a device asserting the Align_Character signal as claimed in the independent claims.

Claims 1, 3, 4, 5, 6 and 8 recites the novel feature of determining if the received data is skewed relative to data received at the master or data received at a device asserting the Align_Character signal. Dependent claims 2, 7 and 9 are also allowable over the prior art made of record.

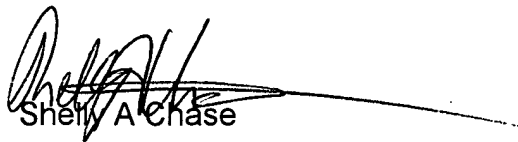
Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelly A Chase whose telephone number is 703-308-7246. The examiner can normally be reached on Mon-Thur from 8:00 am to 6:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 703-305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Sherry A Chase